

Job No.:

SCE/BBMP/HB/17/2020-2021

Date: 12.04.2021

TEST REPORT ON CEMENT

Client

: Executive Engineer, RR Nagar Division, BBMP, Bangalore.

Agency

: Sri. H B Rajendra, Contractor, Bangalore.

Name of Work

Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari
Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP,
Bangalore.

Sample :

: Cement (Chettinad 53 grade OPC)

Sample Supplied
by:

: AGENCY

Date of

: March - 2021

Manufacture:

Date of Testing : 10.04.2021 to 12.04.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	-

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TEST REPORT NO. SCE/BBMP/HB/17/2020-2021
CHETTINAD 53 GRADE OPC
DATE OF TESTING: 10.04.2021 TO 12.04.2021

For SAPIENCE CONSULTANTS

Authorized Signatory

Job No.:

SCE/BBMP/HB/17/2020-2021

Date 12.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of Work : Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Date of Testing : 12.04.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms

1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	86	8.60	8.60	91.4	90-100
2.36	105	10.50	19.10	80.9	75-100
1.18	164	16.40	35.50	64.5	55-90
600 Micron	203	20.30	55.80	44.2	35-59
300 Micron	217	21.70	77.50	22.5	8-30
150 Micron	168	16.80	94.30	5.7	0-10

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For SAPIENCE CONSULTANTS

[Signature]
Authorised Signatory

Job No.:

SCE/BBMP/HB/17/2020-2021

Date 12.04.2021

TEST REPORT ON COARSE AGGREGATES

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of Work : Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara
Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Date of Testing : 12.04.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	196	1.31	1.31	98.69	95-100
20	8435	56.23	57.54	42.46	30-70
10	3057	20.38	77.92	22.08	10-35
4.75	2612	17.41	95.33	4.67	0-5

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For SAPIENCE CONSULTANTS

Priya
Authorised Signatory

Job No.:

SCE/BBMP/HB/17/2020-2021

Date 12.04.2021

TEST REPORT ON COARSE AGGREGATES

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of Work : Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Date of Testing : 12.04.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	3167	63.3	67.1	32.9	25-55
4.75	1323	26.5	93.6	6.4	0-10

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ಸಹಾಯಕ ಉಪನಿರ್ದೇಶಕರ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For: SAPIENCE CONSULTANTS

[Signature]
Authorised Signatory

Job No.: SCE/BBMP/HB/17/2020-2021

Date : 12.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of Work : Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara
Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Date of Testing : 12.04.2021
Material : Sand(Plastering)

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	16	1.60	1.60	98.4	95-100
2.36	27	2.70	4.30	95.7	95-100
1.18	34	3.40	7.70	92.3	90-100
600 Micron	82	8.20	15.90	84.1	80-100
300 Micron	251	25.10	41.00	59.0	20-65
150 Micron	513	51.30	92.30	7.7	0-15

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For SAPIENCE CONSULTANTS

[Handwritten signature: Priya]
Authorised Signatory

Job No.: SCE/BBMP/HB/17/2020-2021

Date : 12.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of Work : Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara
Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Date of Testing : 12.04.2021
Material : Sand(Masonry)

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	21	2.10	2.10	97.9	90-100
1.18	34	3.40	5.50	94.5	70-100
600 Micron	78	7.80	13.30	86.7	40-100
300 Micron	254	25.40	38.70	61.3	5-70
150 Micron	465	46.50	85.20	14.8	0-15

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For SAPIENCE CONSULTANTS

Priga
Authorised Signatory

Job No.: SCE/BBMP/HB/17/2020-2021

Date: 28.04.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of the work : Comprehensive development of Roads and Drains in Ward no 17
Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20.
RRN-DIV(03), BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.04.2021	28.04.2021	8.125	252.3	11.21
2	21.04.2021	28.04.2021	8.136	263.4	11.71
3	21.04.2021	28.04.2021	8.147	271.8	12.08

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For SAPIENCE CONSULTANTS

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Authorised Signatory

Job No.: SCE/BBMP/HB/17/2020-2021

Date: 28.04.2021

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Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of the work : Comprehensive development of Roads and Drains in Ward no 17
Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20.
RRN-DIV (03), BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.04.2021	28.04.2021	8.059	258.2	11.48
2	21.04.2021	28.04.2021	8.086	270.4	12.02
3	21.04.2021	28.04.2021	8.079	269.8	11.99

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Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20.
RRN-DIV(03), BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.04.2021	28.04.2021	8.113	266.3	11.84
2	21.04.2021	28.04.2021	8.095	278.8	12.39
3	21.04.2021	28.04.2021	8.081	251.3	11.17

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11/3/21

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For SAPIENCE CONSULTANTS

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Date: 28.04.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of the work : Comprehensive development of Roads and Drains in Ward no 17
Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20.
RRN-DIV(03), BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.04.2021	28.04.2021	8.031	255.6	11.36
2	21.04.2021	28.04.2021	8.016	262.8	11.68
3	21.04.2021	28.04.2021	8.007	277.3	12.32

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For SAPIENCE CONSULTANTS

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Authorised Signatory

Job No.: SCE/BBMP/HB/17/2020-2021

Date: 30.04.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of the work : Comprehensive development of Roads and Drains in Ward no 17
Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20.
Sample ID : RRN-DIV(03), BBMP, Bangalore.
Size of cubes : Cement Concrete
Cross Sectional Area : 150mmx150mmx150mm
Technical Reference : 22500 mm²
Grade of Concrete : IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on : M₁₅
: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.04.2021	30.04.2021	8.059	291.6	12.96
2	23.04.2021	30.04.2021	8.043	280.3	12.46
3	23.04.2021	30.04.2021	8.021	264.3	11.75

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of the work : Comprehensive development of Roads and Drains in Ward no 17
Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.04.2021	30.04.2021	8.068	248.5	11.04
2	23.04.2021	30.04.2021	8.085	260.1	11.56
3	23.04.2021	30.04.2021	8.098	259.5	11.53

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For SAPIENCE CONSULTANTS

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RRN-DIV(03), BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.04.2021	30.04.2021	8.112	282.1	12.54
2	23.04.2021	30.04.2021	8.106	295.7	13.14
3	23.04.2021	30.04.2021	8.132	267.8	11.90

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For SAPIENCE CONSULTANTS

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RRN-DIV(03), BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

SL.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.04.2021	30.04.2021	8.101	259.4	11.53
2	23.04.2021	30.04.2021	8.129	267.8	11.90
3	23.04.2021	30.04.2021	8.145	283.3	12.59

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For SAPIENCE CONSULTANTS

Prity
Authorised Signatory

Job No: SCE/BBMP/HB/17/2020-2021

Date: 01.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of the work : Comprehensive development of Roads and Drains in Ward no 17
Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20.
RRN-DIV(03), BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.04.2021	01.05.2021	8.153	267.5	11.89
2	24.04.2021	01.05.2021	8.172	278.4	12.37
3	24.04.2021	01.05.2021	8.189	286.3	12.72

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For SAPIENCE CONSULTANTS

Authorised Signatory

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.04.2021	01.05.2021	8.098	259.6	11.54
2	24.04.2021	01.05.2021	8.054	279.9	12.44
3	24.04.2021	01.05.2021	8.023	291.3	12.95

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